

Title (en)

MOTOR CONTROL DEVICE AND COMPRESSOR

Title (de)

VERDICHTER UND VORRICHTUNG FÜR EINE MOTORSTEUERUNG

Title (fr)

DISPOSITIF DE COMMANDE DE MOTEUR ET COMPRESSEUR

Publication

EP 3226407 B1 20230823 (EN)

Application

EP 17162695 A 20170324

Priority

JP 2016063569 A 20160328

Abstract (en)

[origin: EP3226407A1] The present invention relates to a motor control device and a compressor capable of suppressing efficiency reduction due to conduction loss, while obtaining high reliability. A motor control device (1) configured to switch the number of turns of three motor windings (20, 21, 22) incorporated in a three-phase motor (2) operating with three-phase AC power includes a low turn side switch (120) connected between a first neutral point (Y0) of the three-phase motor (2) and low turn side connection points (N200, N220) of the two motor windings; and a high turn side switch (121) connected between a second neutral point (Y1) of the three-phase motor (2) and high turn side connection points (N201, N221) of two motor windings. The low turn side switch (120) and the high turn side switch (121) are bidirectional switches made up of semiconductor devices.

IPC 8 full level

H02P 25/18 (2006.01)

CPC (source: EP)

H02P 25/18 (2013.01); **Y02P 80/10** (2015.11)

Citation (examination)

- JP 2008182783 A 20080807 - YASKAWA ELECTRIC CORP
- JP 5276638 B2 20130828

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